

A. S. KILROY.
EDUCATIONAL DEVICE.
APPLICATION FILED DEC. 14, 1908.

939,515.

Patented Nov. 9, 1909.
2 SHEETS—SHEET 1.

Fig. 1.

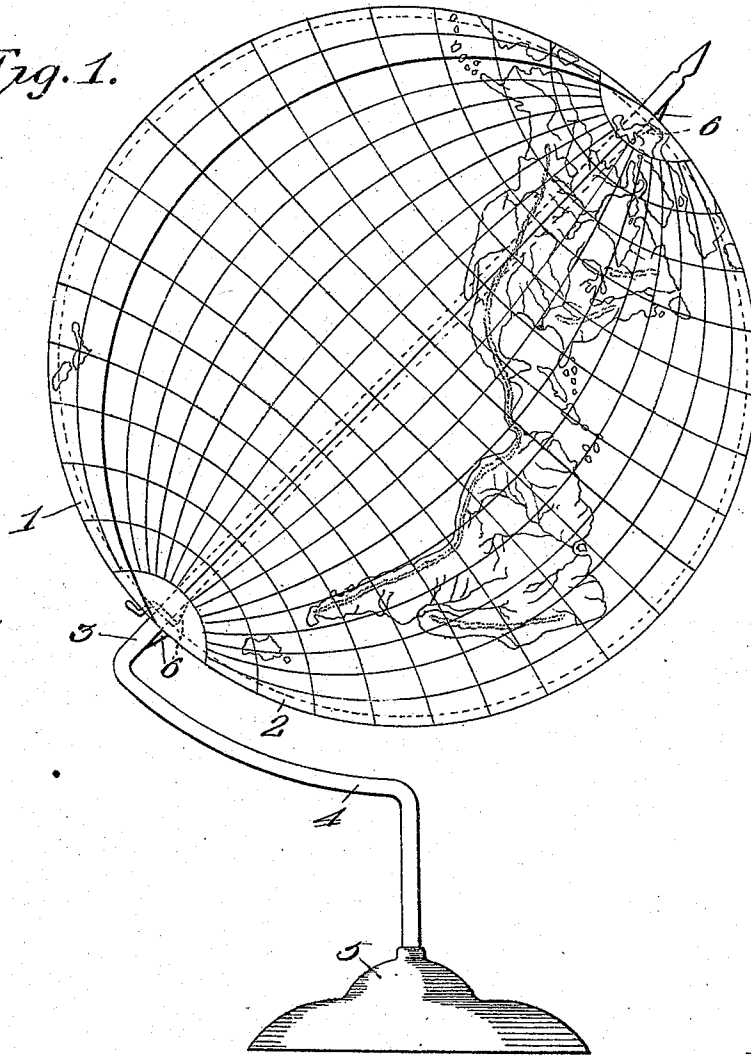


Fig. 4.

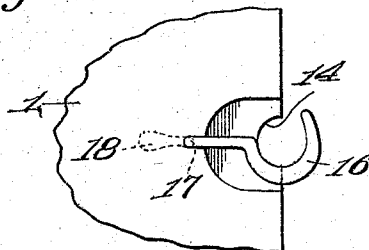
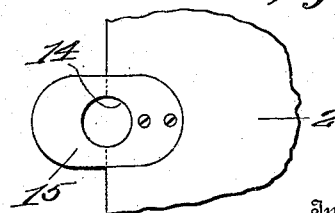


Fig. 5.



Witnesses

James F. Brown
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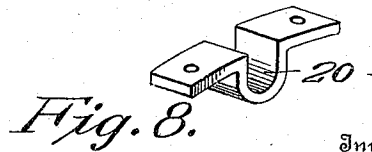
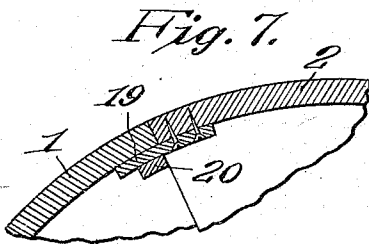
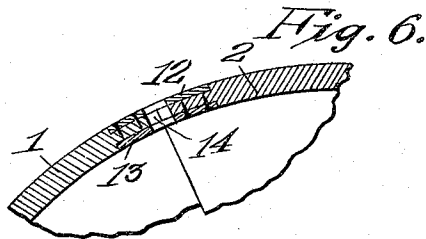
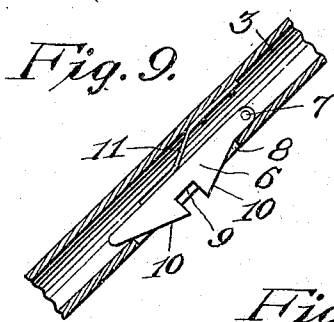
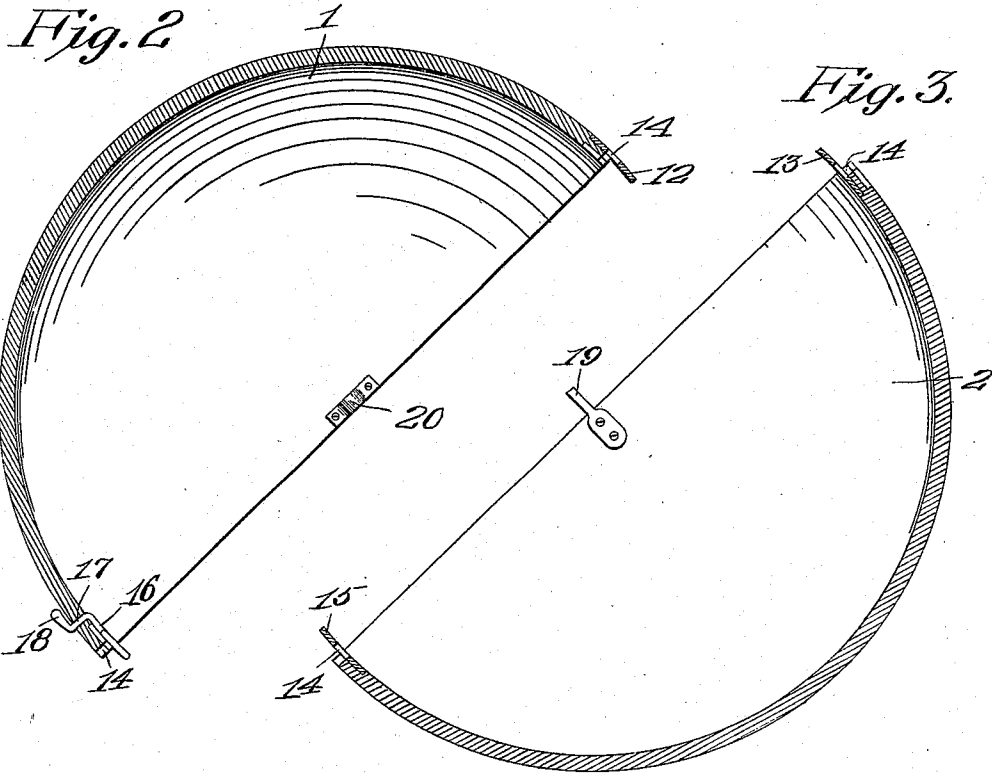
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

ALEXANDER S. KILROY, OF GREAT FALLS, MONTANA.

EDUCATIONAL DEVICE.

939,515.

Specification of Letters Patent.

Patented Nov. 9, 1909.

Application filed December 14, 1908. Serial No. 467,435.

To all whom it may concern:

Be it known that I, ALEXANDER S. KILROY, a citizen of the United States, residing at Great Falls, in the county of Cascade and State of Montana, have invented certain new and useful Improvements in Educational Devices, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in educational devices and more particularly geographical globes.

The object of the invention is to provide a device of this character composed of separable sections which when separated may be nested to permit them to be packed and shipped at a small expense and which may be quickly and easily put together and set up for use, a further object of the invention being to provide a device of this character which is inexpensive in construction and at the same time strong and durable.

With the above and other objects in view, the invention consists of the novel features of construction and the combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a geographical globe constructed in accordance with the invention; Figs. 2 and 3 are detail longitudinal sections through the two semi-spherical sections or shells; Fig. 4 is a detail view of the pivoted hook or clamp; Fig. 5 is a detail view of one of the eyes to receive the axis or supporting rod; Fig. 6 is a detail sectional view through portions of the two globe sections showing the arrangement of the overlapping eyes to receive the axis or supporting rod; Fig. 7 is a detail sectional view showing one of the pins and its keeper loop for holding the edges of the globe sections in proper alinement or register; Fig. 8 is a detail perspective of the keeper loop shown in Fig. 7; and Fig. 9 is a detail sectional view through a portion of the axis or supporting shaft showing one of its springs catches.

In the drawings 1 and 2 denote two similar semi-spherical shells which form the sectional globe, the same being detachably connected and removably mounted upon a supporting rod or axis 3. The latter is disposed at the usual inclination and projects from a suitable support 4 here shown rising from a base or stand 5. The supporting rod

or axis 3 may be constructed of wood, metal or other material and in it are arranged suitable catches 6 to retain the globe upon it and at the same time allow for the free rotation of the globe. Two of said catches 6 are preferably provided and, as clearly illustrated in Fig. 9, each consists of a lever pivoted at one end, as shown at 7, and having a portion to swing into and out of a longitudinal slot 8 formed in the rod 3. Said portion of the lever has an intermediate recess 9 to form a seat for the edges of the two globe sections or shells and on opposite sides of said recess 9 are inclined edges 10 which lead up to said recess. A spring 11 bears against the inner edge of the catch lever 6 to project its notched and inclined portions through the slot 8 in the rod.

While the globe may be divided on the line of the equator, it is preferably divided on the line of one of the meridians of longitude, and as illustrated in Fig. 1, to separate the globe into the eastern and western hemispheres. To detachably fasten the two half-sections or shells overlapping eyes 12, 13 are provided at the upper ends of the same. These eyes are in the form of apertured metal plates set in and suitably secured to the half-sections 1, 2 with their apertures or openings in register with oppositely disposed notches 14 formed in said half-sections so that when the latter are placed together, as shown in Fig. 6, the rod 3 may be readily passed through the registering openings and notches. At the lower end of the globe one half-section has a similar apertured plate or eye 15 while the other has a clasp 16 preferably in the form of a pivoted hook, the pivot portion 17 of which extends through said half-section so that the hook 16 is disposed upon the inside of the globe while the finger piece 18 of the clasp or catch is upon the outside, as clearly shown in Figs. 1 and 2 of the drawings. For the purpose of keeping the edges of the half-sections or shells in proper alinement or register pins 19 are provided at diametrically opposite points on one of the half-sections to enter keeper loops 20 arranged at corresponding points on the other half-section. Any number of said pins 19 and loops 20 may be arranged around the edges of the half-sections but, as illustrated, only two are provided and they are arranged at points midway the poles of the globe.

It will be understood that the sections of

the globe may be made of cardboard, pressed paper, wood fiber, or any other light and inexpensive material and that the map of the world on the outside of the globe may be complete or partially complete according to the purpose for which the globe is designed.

In assembling the parts, the section 2 of the globe is first placed upon the support by passing the rod 3 through the apertured plates or eyes 15, 13 and until they spring into the seats 9 of the spring catches 6. The apertured plate or eye 12 of the other section 1 is then slipped over the end of the rod and when it engages the section 2 the lower end of the section 1 is swung outwardly sufficient to permit the pins 19 to enter the keeper loops 20, whereupon, said section 1 is swung against the section 2 so that the edges of the two sections will be flush with each other. The finger piece 18 of the hook or clasp 16 is then turned to cause the hook to engage the rod and thereby effectively retain the half-sections together, the catches 6 retaining them upon the rod and at the same time allowing them to rotate freely.

From the foregoing it will be seen that the invention provides an exceedingly simple device of this character, the parts of which may be produced at a small cost and may be quickly and easily put together or taken apart. When separated the globe sections may be nested or put one within the other so that they will occupy but little space and may, consequently, be easily stored or shipped at small expense.

Having thus described the invention what is claimed is:

1. A device of the character described comprising a supporting rod, a rotatable globe removably arranged on said rod and composed of separable sections and overlapping eyes upon the edges of the sections of the globe to receive said supporting rod.

2. A device of the character described comprising a supporting rod, a sectional globe, overlapping eyes on the edges of the sections of the globe to receive said rod and means for retaining the globe on the rod.

3. A device of the character described comprising a supporting rod, a sectional globe, overlapping eyes on the edges of the sections of the globe to receive said rod, and

a spring catch for retaining the globe upon the rod.

4. A device of the character described comprising a supporting rod, a globe composed of separable half-sections, alining eyes formed at diametrically opposite points on the edge of one half-section of the globe, said eyes being adapted to receive the rod, an eye upon one point of the other half-section adapted to also receive said rod and a clasp diametrically opposite said eye on the last mentioned section of the globe for retaining the sections together and upon the rod.

5. A device of the character described comprising a supporting rod, a globe composed of separable half-sections, alining eyes formed at diametrically opposite points on the edge of one half-section of the globe, said eyes being adapted to receive the rod, an eye upon one point of the other half-section adapted to also receive said rod and a pivoted hook diametrically opposite the eye on the last mentioned section of the globe, said hook being adapted to engage the rod.

6. A device of the character described comprising a supporting rod, a globe composed of separable half-sections, alining eyes formed at diametrically opposite points on the edge of one half-section of the globe, said eyes being adapted to receive the rod, an eye upon one point of the other half-section adapted to also receive said rod, a fastener diametrically opposite the eye on the last mentioned section of the globe, for holding said sections together and means for retaining the globe upon the rod.

7. A device of the character described comprising a supporting rod, a globe composed of separable sections, eyes upon the edges of the sections of the globe at opposite points to receive said rod, pins upon other points of the edge of one of the globe sections and keeper loops or eyes at corresponding points on the edge of the other globe section and adapted to receive said pins to retain the meeting edges of the globe sections in register or alinement.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

ALEXANDER S. KILROY.

Witnesses:

J. L. THURMAN,
M. D. BALDWIN.